



#120
EOT(1M)/Amdt
SDavis
11/5/02

DOCKET NO.: CACS-0017

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Williams, et al.

Serial No.: 09/786,176

Group No.: 2856

Filed: November 13, 2001

Examiner: Politzer, Jay L.

For: SEMICONDUCTOR GAS SENSING

RECEIVED
OCT 31 2002
TECHNOLOGY CENTER 2800

EXPRESS MAIL LABEL NO: EV 160977697 US
DATE OF DEPOSIT: October 28, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231.

AMENDMENT AND REQUEST FOR RECONSIDERATION

This responds to the Office Action dated July 3, 2002, issued in connection with the above-identified patent application. Applicants respectfully request that the application be reconsidered in view of the following amendment and remarks.

In the claims:

Please amend claims 1 to read as follows:

C1
1. (Twice Amended) A method of sensing the concentration of O_3 in a gas mixture using a semiconductor gas sensor having a resistivity sensitive to O_3 , which comprises increasing the sensor operating temperature to a first temperature to allow the sensor surface to reset then decreasing the sensor operating temperature to a second temperature and analyzing the resultant resistance of the sensor at the second temperature, wherein the sensor is a layer of WO_3 , the first

10/30/2002 NH0HAMM1 00000093 09786176

01 FC:1251

110.00 OP

10-29-02

OP 2856

#

DOCKET NO.: CACS-0017

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Confirmation No.: 6295

Williams, et al.

Serial No.: 09/786,176

Group Art Unit: 2856

Filing Date: November 13, 2001

Examiner: Politzer, Jay L.

For: SEMICONDUCTOR GAS SENSING

EXPRESS MAIL LABEL NO: EV 160977697 US

DATE OF DEPOSIT: October 28, 2002

EV160977697US

Box ☐ NON-FEE

☐ AF

Assistant Commissioner for Patents
Washington DC 20231

Sir:

RECEIVED
OCT 31 2002
TECHNOLOGY CENTER 2800

REPLY TRANSMITTAL LETTER

Transmitted herewith for filing in the above-identified patent application is:

- ☐ A Preliminary Amendment.
- ☒ An Amendment Responsive to the Office Action Dated July 3, 2002.
- ☐ An Amendment Supplemental to the Paper filed _____.
- ☐ Other: _____.



Applicant(s) has previously claimed small entity status under 37 CFR §1.27.

Applicant(s) by its/their undersigned attorney, claims small entity status under 37 CFR §1.27 as:

- ☐ an Independent Inventor
- ☐ a Small Business Concern
- ☐ a Nonprofit Organization

☐ This application is no longer entitled to small entity status. It is requested that this be noted in the files of the U.S. Patent and Trademark Office.

☐ Loss of Entitlement Enclosed

☐ Substitute Pages _____ of the Specification are enclosed.

☐ An Abstract is enclosed.

☐ _____ Sheets of Proposed Corrected Drawings are enclosed.

☐ A Certified Copy of each of the following applications: _____
_____ is enclosed.

☐ An Associate Power of Attorney is enclosed.

☐ Information Disclosure Statement.

☐ Attached Form 1449.

☐ A copy of each reference as listed on the attached Form PTO-1449 is enclosed herewith.

☐ Appended Material as follows: _____.

☐ Other Material as follows: _____.

RECEIVED
OCT 31 2002
TECHNOLOGY CENTER 2800



DOCKET NO.: CACS-0017

- 3 -

RECEIVED
OCT 31 2002
TECHNOLOGY CENTER 2800

PATENT

FEE CALCULATION

☐ No Additional Fee is Due.

				SMALL ENTITY		NOT SMALL ENTITY	
	REMAINING AFTER AMENDMENT	HIGHEST PAID FOR	EXTRA	RATE	FEE	RATE	FEE
TOTAL CLAIMS	2	20 (20 MINIMUM)	0	\$9 EACH	\$	\$18 EACH	\$0
INDEP. CLAIMS	1	3 (3 MINIMUM)	0	\$42 EACH	\$	\$84 EACH	\$0
FIRST PRESENTATION OF MULTIPLE DEPENDENT				\$140	\$	\$280	\$0
<input checked="" type="checkbox"/> ONE MONTH EXTENSION OF TIME				\$55	\$	\$110	\$110
<input type="checkbox"/> TWO MONTH EXTENSION OF TIME				\$200	\$	\$400	\$
<input type="checkbox"/> THREE MONTH EXTENSION OF TIME				\$460	\$	\$920	\$
<input type="checkbox"/> FOUR MONTH EXTENSION OF TIME				\$720	\$	\$1440	\$
<input type="checkbox"/> FIVE MONTH EXTENSION OF TIME				\$980	\$	\$1960	\$
<input type="checkbox"/> LESS ANY EXTENSION FEE ALREADY PAID				minus	(\$)	minus	(\$)
<input type="checkbox"/> TERMINAL DISCLAIMER				\$55	\$	\$110	\$
<input type="checkbox"/> OTHER FEE OR SURCHARGE AS FOLLOWS:							
TOTAL FEE DUE							\$110

- ☒ A check is enclosed in the foregoing amount due.
- ☒ Petition is hereby made under 37 C.F.R. 1.136(a) (fees: 37 C.F.R. § 1.17(a)(1)-(4) to extend the time for response to the Office Action of **July 3, 2002** to and through **November 3, 2002** comprising an extension of the shortened statutory period of 1 month.
- ☒ The Commissioner is hereby requested to grant an extension of time for the appropriate length of time, should one be necessary, in connection with this filing or any future filing submitted to the U.S. Patent and Trademark Office in the above-



BUCKET NO.: CACS-0017

- 4 -

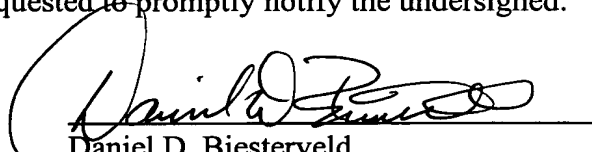
PATENT

Account 23-3050. This sheet is provided in duplicate.

- ☒ The Commissioner is authorized to charge payment of the following fees and to refund any overpayment associated with this communication or during the pendency of this application to Deposit Account 23-3050. This sheet is provided in duplicate.
- ☐ The foregoing amount due for filing this paper.
- ☒ Any additional filing fees required, including fees for the presentation of extra claims under 37 C.F.R. 1.16.
- ☒ Any additional patent application processing fees under 37 C.F.R. 1.17 or 1.20(d).

SHOULD ANY DEFICIENCIES APPEAR with respect to this application, including deficiencies in payment of fees, missing parts of the application or otherwise, the U.S. Patent and Trademark Office is respectfully requested to promptly notify the undersigned.

Date: October 28, 2002


Daniel D. Biesterveld
Registration No. 45,898

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439